Abstract

A base transceiver station for a radio communication system comprises a transmitter unit (TU), a receiver unit (RU) and a transmit path between the transmitter unit (TU) and an antenna . The receiver unit (RU) determines output data from received signals and the transmitter unit (TU) converts input data into transmitted signals and pre-distorts the transmitted signals using at least one compensation value. The base transceiver station comprises also a branching unit for transferring at least a portion of a transmitted signal from the transmit path to the receiver unit (RU) and a processing unit (PU) which is adapted to receive a representation of the input data and the output data. The processing unit (PU) compares the input data to the output data, determines a first compensation value for the pre-distortion according to the comparison and updates the compensation value of the transmitter unit (TU) with the first compensation value. Methods and computer programs embodying the invention are also described.